POLYROLLED® DEPTH FILTER

POLYPROPYLENE MICROFIBER

PolyRolled® Depth Filters are made of continuously rolled polypropylene microfiber. The outer layers are constructed of graded pore sizes, while the inner layers are uniform. This provides a large filter depth for particulate capture and high efficiency.

RMF-PR series filters are constructed of single-layer superfine polypropylene fiber, with filtration efficiency over 99%.

RMF-CMP series with 5-8 layers of polypropylene media to capture oversized particles at 95% efficiency at rated pore size.

RMF-CRN series filters are constructed of 2-3 layers of polypropylene fibers. They have more than two times higher retention efficiency and three times longer life cycle than similar polypropylene products, with a retention efficienty of 90% at rated pore size.

FEATURE	BENEFIT
Nanofiber media with 56 layers of continuously rolled microfiber	Provides high contaminant hold capacity and high removal efficiency at low pressure drop
	Multiple layers allow high contaminant removal efficiency while providing an extremely long life time while maintaining high removal efficiency
	All polypropylene construction provides excellent compatibility
	Inner polypropylene core increases filter pressure endurance capability
Quality Assurance	Manufactured in a facility which adheres to ISO 9001 Practices. 100% Integrity tested and lot traceable. Meets NSF requirements.
Particle shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.
Non-fiber release	Component materials meet the criteria for a “Non-fiber-releasing filter” as defined in 21 CFR210.3 (b) (6).

SPECIFICATIONS

Filter media	Rolled Polypropylene Microfiber
Support layer	Polypropylene
Supports/core/cage/end caps	Polypropylene
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
Diameter	68 mm
Max. operating temperature	80°C
Max. differential pressure	0.40 MPa (4.0 bar, 58 psi) at 21°C 0.21 MPa (2.1 bar, 30.5 psi) at 80°C

Typical Applications

- Pre-filter
- RO pre-filter
- Clarification
- Water filtration

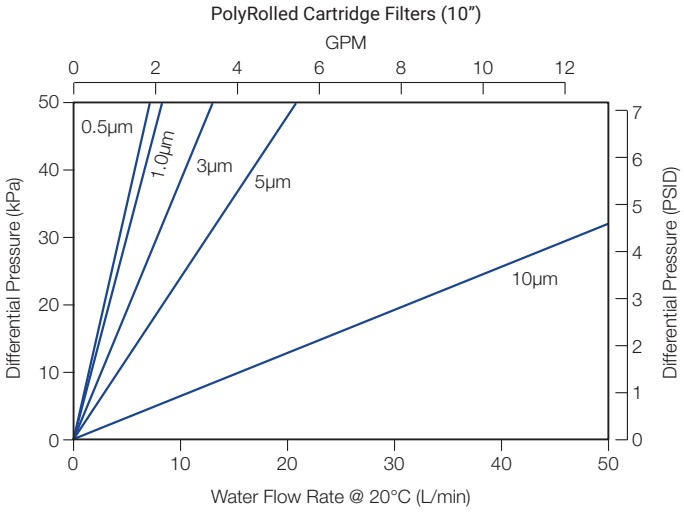
RETENTION (PR SERIES: 99% AT RATED PORE SIZE)

Particle Range	Filter Code 0010 (0.1 µm)	0030 (0.3 µm)	0050 (0.5 µm)	0100 (1.0 µm)
≥0.2 µm	99.99%	97.78%	93.87%	-
≥0.5 µm	100%	99.87%	99.92%	90.45%
≥1.0 µm	100%	100%	99.99%	99.00%
≥3.0 µm	100%	100%	100%	99.99%
≥5.0 µm	100%	100%	100%	100%

CMP Series: 95% at rated pore size

CRN Series: 90% at rated pore size

FLOW RATES (PR SERIES)



ORDERING INFORMATION

EXAMPLE: **RMF-CRN0030SF10E-P** = 2-3 layers PP fiber, 0.3 µm, 226/Fin, 10" length filter with EPDM seals, pharmaceutical application

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Series
PR = Single-Layer Superfine Polypropylene Fiber (99% Retention Efficiency)
CRN = 2-3 Layers Polypropylene Fiber (90% Retention Efficiency)
CMP = 5-8 Layers Polypropylene Fiber (95% Retention Efficiency)

Removal Rating
0010 = 0.1 µm
0030 = 0.3 µm
0050 = 0.5 µm
0100 = 1.0 µm
0200 = 2.0 µm
0300 = 3.0 µm
0500 = 5.0 µm

Connection
DOE = Double Open End, Flat Gasket
TC = 222 O-ring/Flat
TF = 222 O-ring/Fin
SC = 226 O-ring/Flat
SF = 226 O-ring/Fin
N = No Gaskets
H = PE Gaskets

Nominal Length
05 = 5"
10 = 10"
20 = 20"
30 = 30"
40 = 40"

Seal Material
S = Silicone
E = EPDM
V = FKM
P = E-FKM (FEP/PFA encapsulated FKM)
_ = Blank for PE or no gasket option

Application
F = Food & Beverage
P = Pharmaceutical
C = Chemical

BannerIndustries

www.bannerindustries.com | Technical Sales: filtration@bannerindustries.com

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